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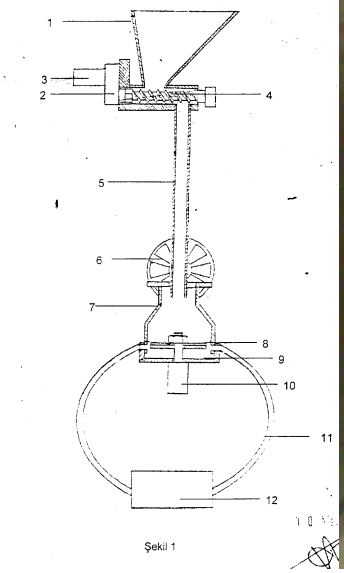
LORECa - TUZSA-55



Şekil 1

DRY SALT AEROSOL GENERATOR FOR INHALATION

USER MANUAL

2012 NEW VERSİON LFS 4.3.0

Thank you very much for your preference this ''TUZSA'' generator. We recommend you carefully to read
This manual before using this product and keep this maunal always at hand for future references.

1. GENERAL DESCRIPTIONS

1.1 This user manual contents of information about correctly and safe using of Dry Rock Salt Aerosol Generator ''TUZSA 55''

CERTAINLY READ THE USAGE INSTRUCTIONS BEFORE OPERATING IT

1.2 Don't use Dry Rock Salt Aerosol Generator for other purposes except for Salt Rooms
1.3 Dry Rock Salt Aerosol Generator has been produced to provide the atmospheric climate in Salt Caves should be used by operator trained by the manufacturer.
1.4 Don't use Dry Rock Salt Aerosol Generator for other purposes except for Salt Rooms

2. AIM

To blow salt aerosol into salt room.

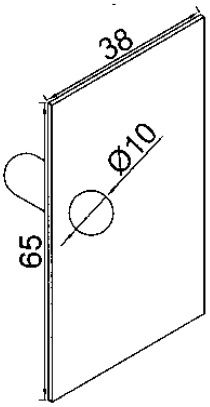
3. THE CONSRUCTION OF DRY SALT AEROSOL GENERATOR

4. OPERATING PRINCIPLE

4.1 Approximately 250 gr rock salt put into the salt tank of Dry Rock Salt Aerosol Generator reaches to the grinder passing through rotating mill by help of DC motor being adjustable by LCD screen, Rock salt aerosol prosessed in grinder is injected to exit pipe by fan and rough salt particules is seperated here, aerosol in the form of very thin powder is blown to the room by the effect of air flow

RESİM 1

RESİM 2



5. SAFETY PRECAUTIONS

5.1 The person who will operate the device should be informwed by technical operating instructions and trained about electrical device safety

5.2 Earth line should be connected in order to provide the safety of working personnel, connecting and control of earth line should be made by an experienced electrician

5.3 The following actions are certainly forbidden in practice. Being Connected of A part out of the present accesories and parts of Dry Rock Salt Aerosol Generator to the device, being operated of the device near and contact with the other electrical devices, being operated by socket without earth line, being used of water pipe, gas pipe, sewage pipe, inflammable substance pipe, lightning earth , being operated of device improper electric current, being changed of interval parts of device while connected

electricity, not to keep the device in custody while it is working, to permit the old people nad children to operate the device, to operate the device while its door is open, to exposure electrical parts of the device to the leakage of liquids, in case of defect, to have incompetent persons repair it. Manufacturer doesn't accept any responsibility for these and similar cases

5.4 Dry Rock Salt Aerosol Generator should be placed 1m far from heating devices and devices spreading heat in order to provide fire safety and not being heated of it much.

5.5 In case of defect of Dry Rock Salt Aerosol Generator, the device should be made off and its electricity plug should be pulled.

6. PREPARATION TO USE

6.1 As soon as Dry Rock Salt Aerosol Generator has reached to your plant , it should be taken off, by taking the signs on its package into consideration and the integrity and current situation of device should be conrtrolled.

7. USAGE OF THE PRODUCT

7.3 Device should be examined, and its oparting principle and its user manual should carefully be read.

7.4 Device should be placed on a table and its position should be provided as vertical.

7.5 Before the device is plugged, look at outside of device, please control if there is mechanical frustrations and breaks or not and stabilty of interval parts. Electricity power should be in conformity with the device.

7.6 Device should be placed and fixed to its place

7.7 Electricity plug of the device should be placed to the socket

8. DAILY MAINTENANCE

Purpose of Daily Maintenance Plan is to sustain operating of the device and operatablity of it in keeping period and to provide opportunity of technical service capability of operating personnel.

8.2 Dry Salt Aerosol Device should be certainly cleaned three times monthly by its operator.

8.2.1 Before general mainte4nance its plug should be pulled from socket.

8.2.2 The door of operating section should be opened.

8.2.3 Thin sodium Chloride layer being in salt tank where rock salt is placed should be cleaned by rounded brush.

8.2.4 The mill under the salt tank should be cleaned after every session. In case of not being cleaned, salts collected in the mill minimize the effectiveness of the device and the salt aerosol consantration. Clean remaining salts from the mill, turning by hand

8.2.5 Open the cracking block where rock salt is cracked by turning it to the right, clean the inside of cracking block and two headed cracking knife by rounded brush.

8.2.6 clean the salts remaining on the surface of fan providing to blow dry rock salt aerosol to the room,by rounded brush, turning.

8.2.7 Clean pipe well by rounded brush.

8.2.8 Clean aerosol exit pipe by rounded and smooth brushes

8.2.9 Disinfection of out surfaces of the device is made when it is seen suitable by plant, disinfection method is 3 % oxigenized water and cleaning substance 0,5 %

8.2.10 Alcholized and volatiles chemicals shouldn't be used in disinfection of inside and outside of the device.

9. DEFECTS and REPARATION METHODS

9.1 Defects and reparation methods of Dry salt aerosol generator mostly met is shown in Table 1

Table 1

Defect Type	Estimated reason of defect	Reparation
1. when device plugged to socket, the indicator of ''open'' isn't on	1. Socket hasn't got electricity 2. Ceramic fuse 0,5A is burned 3. Electricity cable is fault	1. Control if there is electricity in the socket. 2. Change the ceramic fuse 3. Renew the cable
2. Caracking block doesn't operate when push the button of ''Start''	1. Level consantration isn't ''0,0'' 2. ceramic fuse a4 is burned	1.Apply the usage instruction nrd. 8.8-8.11 2. Chamge the ceramic fuse
3. If it doesn't produce aerosol	1. There isn't any rock salt in salt tank 2. Salt mill isn't clean	1. Add rock salt 2.Clean salt mill

9.2 Other defects to be met isn't specific and they can be repiared only by producer firm.

10 REPARATION

10.1 Defects occured because of technical problems isn't possible to repair without removing

10.2 Defect to be met should be repaired by a competent specialist

10.3 Reparation of defect should certainly be made by obeying the safety precautions.

10.4 Reparation of Dry salt aerosol generator should be my in conformity with the general electronical methods by using control devices and electrical scheme should be taken into consideration.

10.5 Outside signs of device defects should be compare with the signs at Table 1
10.6 Reparation should be made according to Table 1, if defect is one in Table 1
10.7 If signsa of defect is different from Table 1, technical support should be taken from producer firm.

11. KEEPING, WRAPPING, TRANSPORT
11.1 If Halogenerator won't be used for a determined period, it should be kept in a dry place without moisture.

11.2 If it won't be used for along time, salt tank should be cleaned and no salt should be left in the generator

11.3 The temperature of the place where the halogenerator will be kept shouldn't be over 20 Degree celcius

11.4 Halagenerator should be kept as off for the period it isn't used.

11.5 Gross weişght of halogenerator is 20 kg. Packaging should be suitable, sheltered.

12. TECHNICAL SPECIFICATIONS
12.1 EU Medical Device Directive nrd. 93/42/EEC is applied in production of halogenerator device.
12.2 Claqss of product: II a-93/42/EEC
12.3 Full name of the product: Dry Salt Aerosol Generator
12.4 Model of the product: TUZSA 55

NEW SPECIFICATION

-Powder feed rate: 0 - 300 g/h
-Powder tank capacity: 600 g
-Possible voltages are: 12V (DC); 110 V (US & Canada) or 220 V (Europe etc)
-Dimensions: aerosol generator 400 x 240 x 700 mm,
-Weight: salt aerosol generator 25 kg,
-Mounting: Wall
- The automatic salt-generator with the modern and comfortable design
- 7”İnc Large touch screen display
-The machine is installed outside the salt room and demands to input into memory of the size of salt room (M2)
- The mechanical board consists of easily replaced 3 blocks (a feeder; a mill; a fan)
- The electronic block contains the microprocessor and memory
- Provides 4 levels of salt therapy (05mg/M3-10mg/M3-15mg/M3-20mg/M3)
- Power consumption without periphery: less, than 50W
-The dry salt aerosol is permanently blown into the salt therapy room

Perpect For Use İn Salt Room

Plastic Delvin Contruction For Long Life
Timer 15-30-45-60 Minutes
4 Programs For Storing Of İnhalation Parameters
Low Power Consuption

Power supply	100-220 V, 50-60 Hz
Power consumption	55 W
Fuse	2
Salt consumption	0-150 gr/min, adjustable
Air volume	1000 L/Min
Outside dimensions	270 (W) x 550 (H) x 260 (D) mm.
Total weight	20 kg
Usage conditions	15-40 Cdegree, 30-60 % moisture
Keeping conditions	-20 and 50 C degree 20-80 % moisture
User manual	Turkish / English
Warranty Certificate	Turkish / English Warranty Card

Manufacturer can change specifications and appearance of device without giving notice

	Read The Manual Carefully
	Dispose This Products Correctly
	Don’t Open During Process
	1014
	Manufacturer: BAHADIR TIBBİ ALETLER

SALTHALOGENERATOR
Salthalogenerator is dry salt aerosol generator intended for use as halogenerator in salt rooms. All parts coming in contact with salt are made of Plastic Delvin Easy handling thanks to microprocessor control,graphic display and touch screen.

•Based on the the room's size the concentration can be conveniently adjusted between 5 and 20

mg/m3.
•2 Year Warranty
•Since reliability and reputation is extremely important to us, we only use reliable and tested parts manufactured in, when requested we provide spare parts.

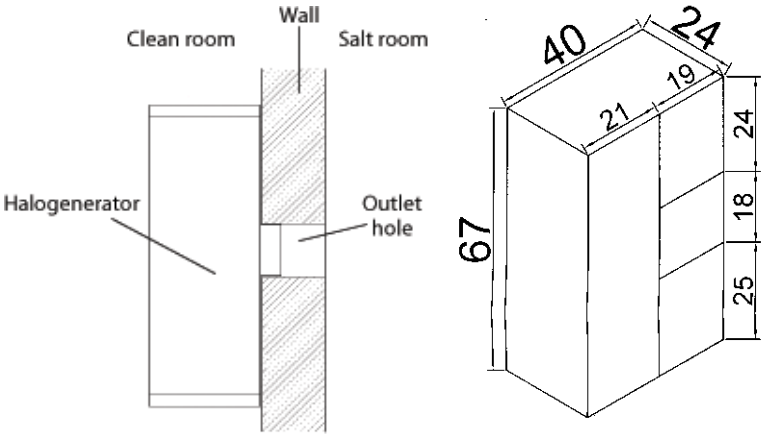
Virtually free from clogging

Manufacturing and deliveries of the salthalogenerator model No: Tuzsa-55 began in 2009. Application of the advanced “Hi-Tech” method has allowed us to create the most reliable “Bahadır” salt Hallogenerator, which contains a touch screen control panel and these other modern advantages: The “Bahadır” Salt Hallogenerator has a simple version of the touch-screen; the “Bahadır” salt Hallogenerator has an identical design, differing only in the size of the touch-screen

INSTALLATION

Installation

1. On outer surface of salt room wall mark centers of holes for halogenerator according to this pictures:
2. Drill in wall a hole of 110 mm diameter for outlet.
3. Drill in wall 2 holes of 8 mm diameter for nylon anchors, and insert anchors in holes.
4. Put halogenerator on prepared wall and screw 2 metal screws 5.5 x 60 mm - DIN7997 in anchors



Notes on safety

- The warning signs and the sample icons shown here are listed for you to use this product safely and correctly as well as to prevent the risk of injury to you and others.
- The icons and meanings are as follows:

Warning sign	Contents
⚠ Warning	Indicates matters in which the possibility of death or severe bodily injury may arise as a result of incorrect handling.
⚠ Caution	Indicates matters in which bodily injury or material damage* may arise as a result of incorrect handling.

Examples of signs		
The △ icon indicates caution (including warning and danger). Matters involving actual caution are indicated by statements or pictures in or near △.	The pictured icon refers to "caution for flammability".	The pictured icon refers to "caution for electric shock".
The ⃠ icon indicates prohibitions (what you cannot do). Matters involving specific prohibitions are indicated by text or pictures shown in or near ⃠.	The pictured icon refers to "prohibition to disassemble".	The pictured icon refers to "general prohibition".
The ● icon indicates something that is compulsory (must be observed at any time). Matters involving specific compulsory actions are indicated by statements or pictures shown in or near ●.	The pictured icon refers to "general compulsion".	The pictured icon refers to "unplugging the power plug".

⚠ Warning	
Use only salt approved for medical purposes, according to doctors instructions. • Patioent physical condition may change for the worse. Consult doctor about suitability of treatment with this product, i.e. is there possibility for worsening of patient physical condition during or after treatment. • Patioent physical condition may change for the worse. Clean product after use. • Salt is collectiong inside product during work. Salt is very corrosive substance. There can be corrosion and damage of some product parts. In case of any problem with your nebuliser please contact your local LORECa service representative (address on/ inside package).	

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Notes on safety

Do not disassemble, repair, or modify the product. • The product may malfunction or cause injury. Contact your nearest LORECa service representative.	
Do not use a power cord other than the supplied one. • The product may ignite or you may suffer electric shock. Be sure to use the power source as specified on the device. • The product may ignite or you may suffer electric shock. Do not share the electric outlet with other electric appliances. • The product may ignite or you may suffer electric shock. To unplug the power plug from the electric outlet, do not pull the power cord, instead hold the power plug with your hand. • The power cord may be broken or short-circuited and cause fire or you may suffer electric shock.	